



Smith Aquatic Center

USGBC LEED-NC Platinum

Opened to the public:
October 22, 2010

- 24,000 SF indoor aquatic center (2 indoor pools)
- 6-lane competition pool with 1-meter diving board
- Leisure/recreational pool
 - 2 water slides
 - lazy river
 - children's in-water play feature
- Fitness center, locker facilities, multi-function room, restrooms & showers

Green Building Elements



SITE

- Geothermal well system: 5 wells @ 1,500' depth
- State-of-the-art stormwater management system
 - 33% decrease in runoff rate (from pre-project conditions)
 - 40% decrease in runoff quantity (from pre-project conditions)
 - Three landscaped biofilters
- Water efficient landscaping installed: no outdoor irrigation
- Vegetated west facing wall: vines with trellis system
- Exterior lighting: energy efficient LED lighting
- Highly reflective concrete parking lot reduces "heat island" effect

BUILDING

- Solar thermal system (rooftop): for domestic hot water
- 64% potable water use reduction: automatic faucets and valves, low flow fixtures used throughout
- High performing HVAC system: 58% energy cost savings: electronic controls, CO₂ monitored ventilation system, waste energy recovery to heat pool water, energy recovery for all exhaust air
- HVAC condensate water captured and re-used
- Energy efficient building envelope, high efficiency window glazing
- Interior lighting/daylighting controls – automatically controlled for energy efficiency (occupancy sensors)
- Natural light to over 98% of regularly occupied spaces
- Reflective roof – reduces "heat island" effect
- 22% of total building materials have recycled content
- 31% of total building materials were extracted or manufactured regionally (within 500 miles)
- 74% of all wood-based products harvested from FSC-certified forests (Forest Stewardship Council)
- 99% of all construction waste diverted from landfill
- Low- or no-VOC products selected (include adhesives, sealants, paints, coatings)
- Ultra-violet and CO₂ pool water treatment – reduces the amount of water treatment chemicals required, improves indoor air quality
- Green cleaning program established for daily maintenance

